

## Special Issue

# Advanced Surface Topography and Engineering in Machine and Tool Applications

### Message from the Guest Editors

Surface topography is key in modern machine and tool engineering, influencing wear, friction, energy efficiency, and product life. As production faces more demanding applications, precise characterization and control of topography are increasingly critical. With micro- and nano-scale features, surfaces can improve lubrication, extend tool life, and enhance tribological behavior, changing how materials and machine parts perform in practice. This Special Issue highlights recent research, methods, and case studies on measuring, simulating, and creating engineered surfaces for tools and machines. It covers advances in metrology such as atomic force microscopy and optical interferometry, along with new approaches to model, develop, and test surface features across industries. The aim is to advance understanding of how surface engineering enhances performance, durability, and sustainability in machinery, while promoting development of new manufacturing technologies through both fundamental studies and application-oriented work. We look forward to your contributions.

---

### Guest Editors

Prof. Dr. Chithirai Pon Selvan  
Dr. Avinash Lakshmikanthan  
Prof. Dr. Wahidul K. Biswas

---

### Deadline for manuscript submissions

30 June 2026



## Coatings

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.4



[mdpi.com/si/255324](https://mdpi.com/si/255324)

*Coatings*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[coatings@mdpi.com](mailto:coatings@mdpi.com)

[mdpi.com/journal/  
coatings](https://mdpi.com/journal/coatings)





# Coatings

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.4



[mdpi.com/journal/  
coatings](https://mdpi.com/journal/coatings)



## About the Journal

### Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

---

### Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

---

### Author Benefits

#### Open Access

– free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)